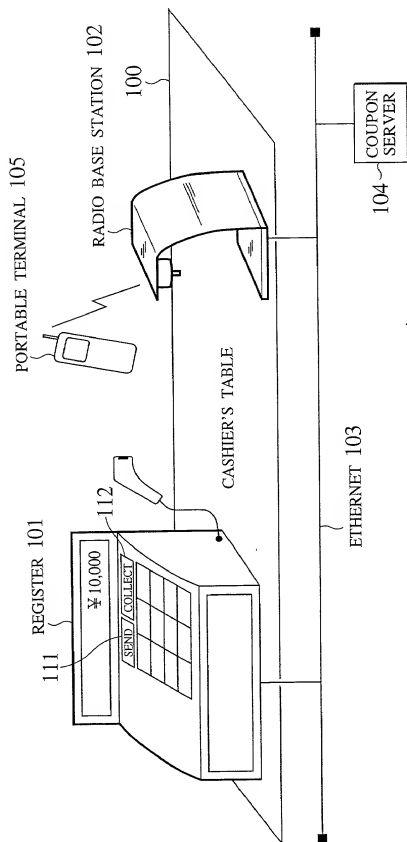


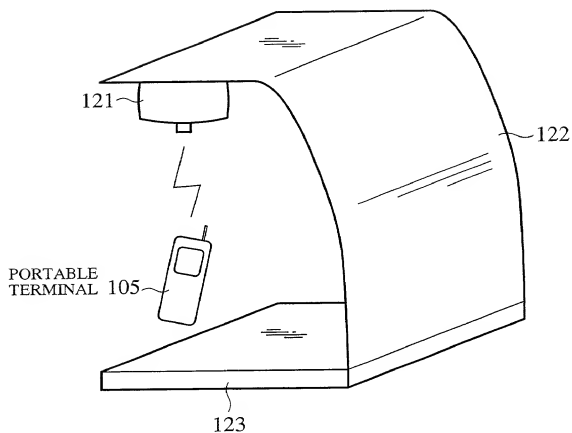
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FIG. 1



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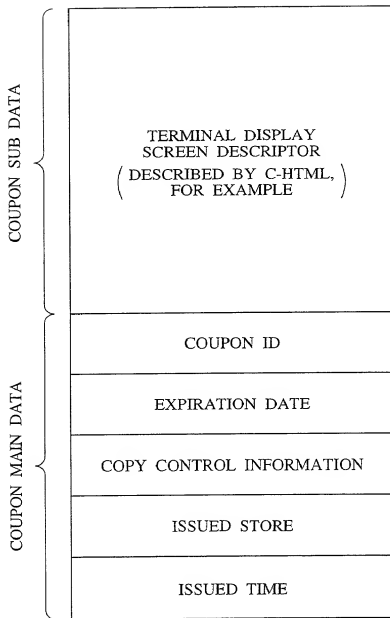
FIG.2



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FIG.3



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FIG. 4

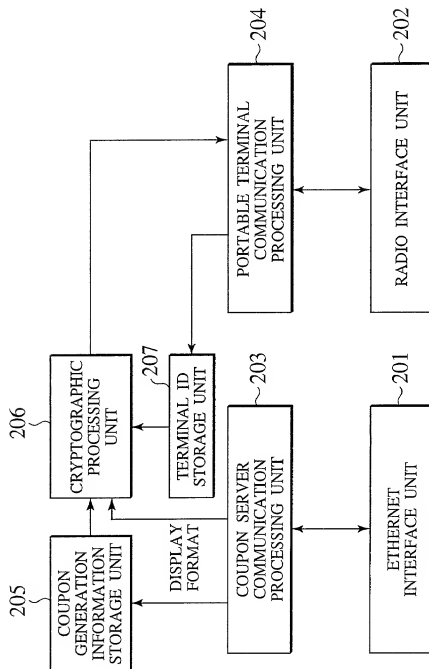


FIG.5

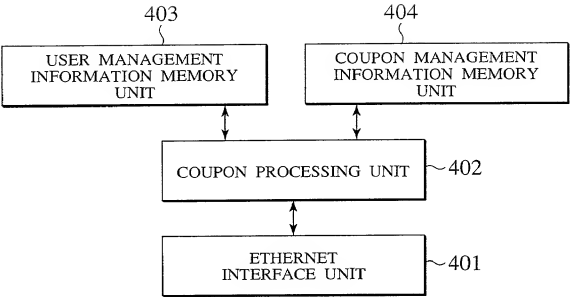


FIG.6

USER ID	USER ATTRIBUTE INFORMATION	TERMINAL ID	SERVICE INFORMATION
⋮	⋮	⋮	⋮

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FIG.7

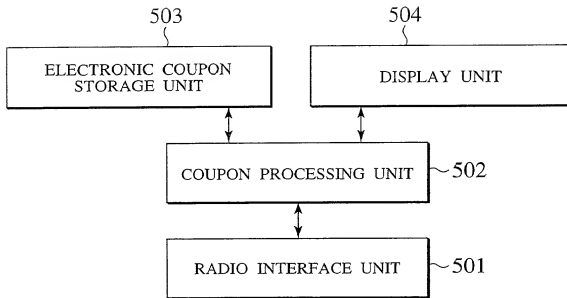
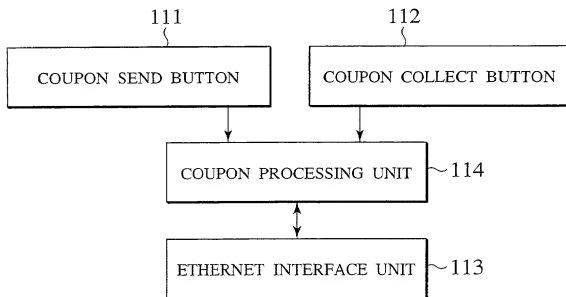
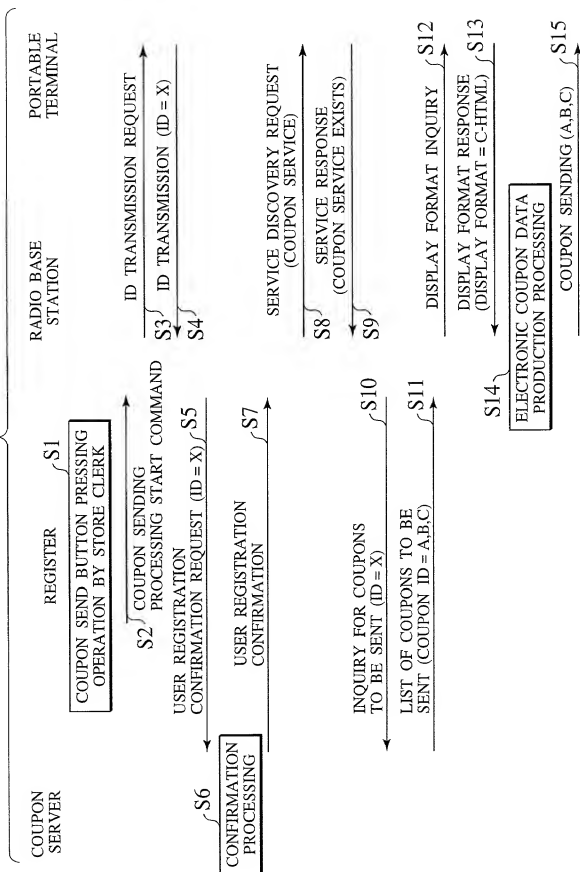


FIG.8



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FIG.9



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FIG.10A

COUPON (P)
SIGNATURE FOR ABOVE COUPON (e.g. [f(p)]Kp)

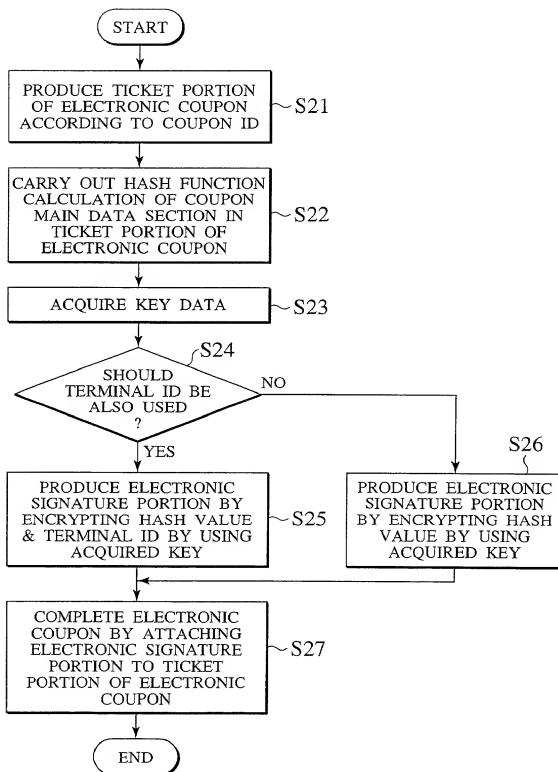
FIG.10B

COUPON (P)
SIGNATURE FOR ABOVE COUPON (e.g. [f(p),x]Kp)

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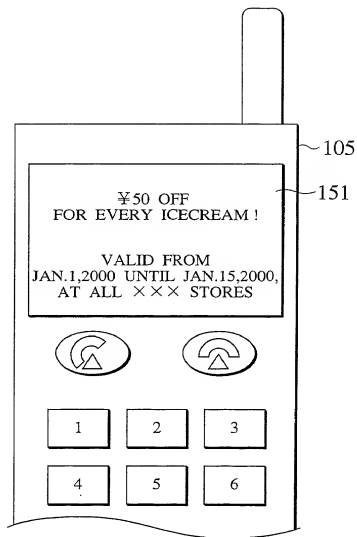
FIG.11



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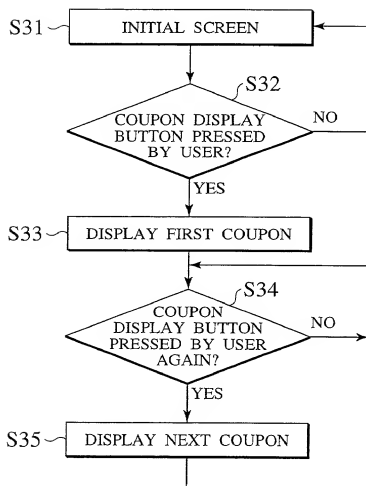
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FIG.12



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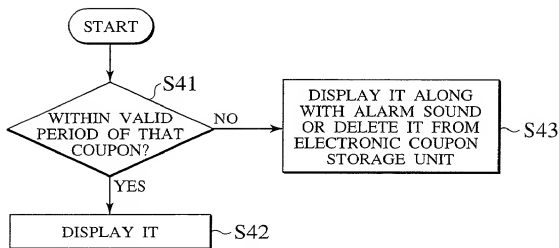
FIG.13



09773914-020004

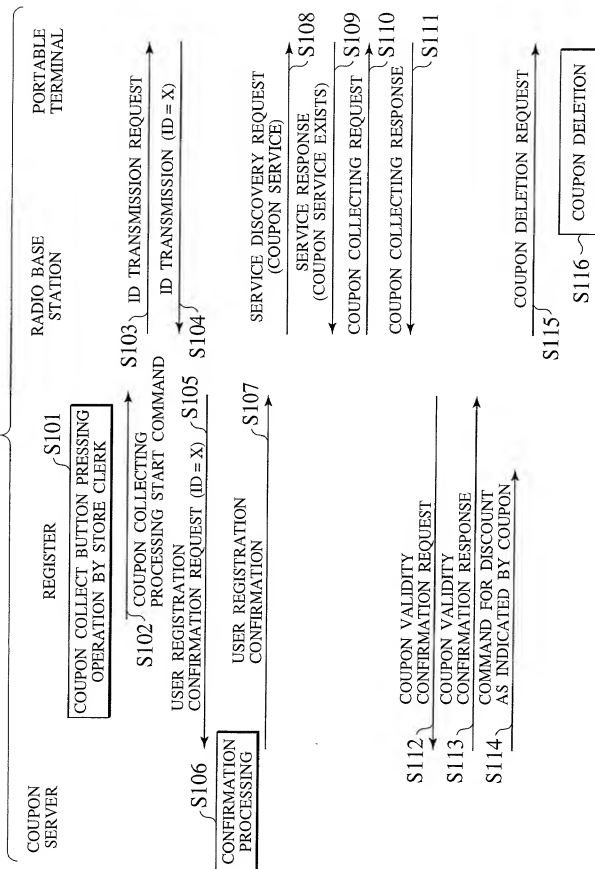
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FIG.14



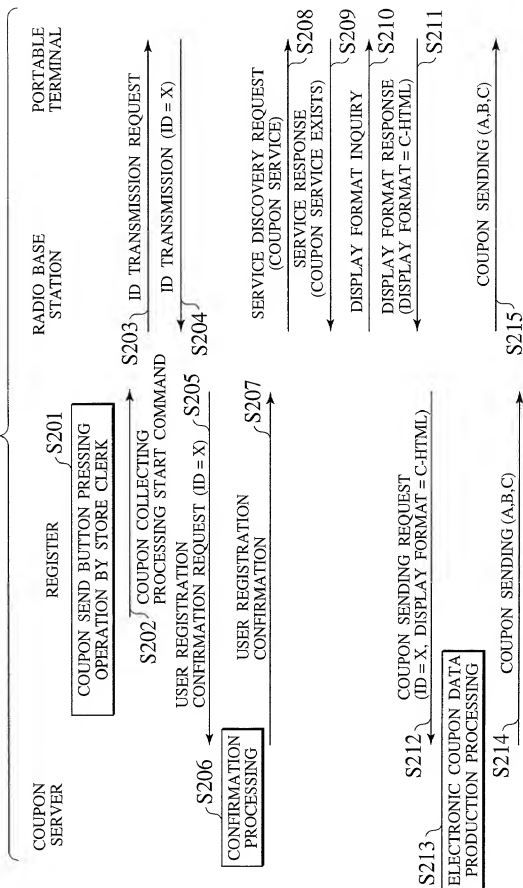
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FIG. 15



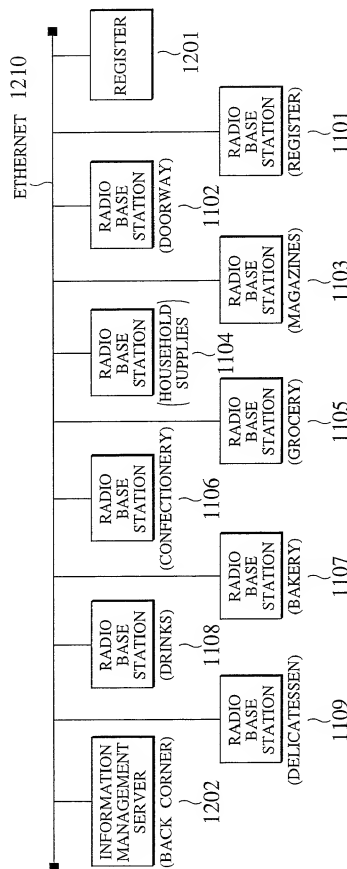
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FIG.16



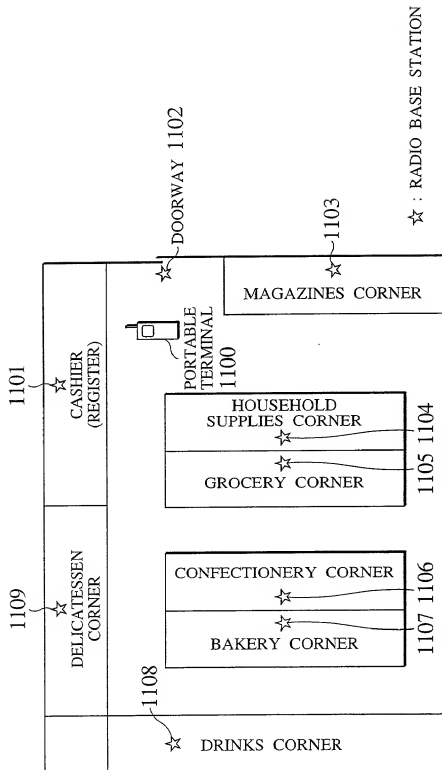
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FIG.17



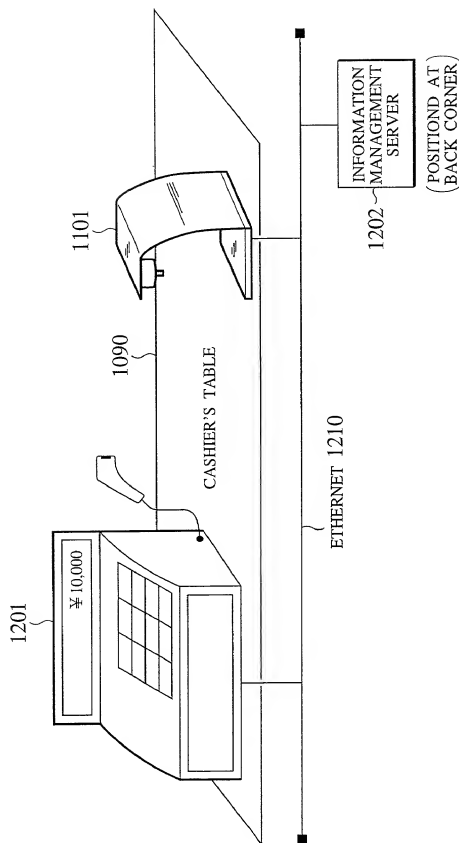
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FIG.18



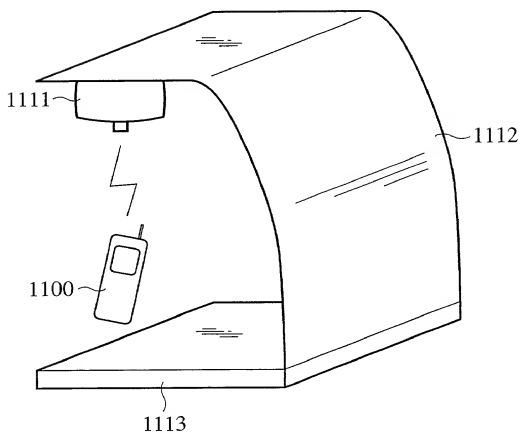
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FIG. 19



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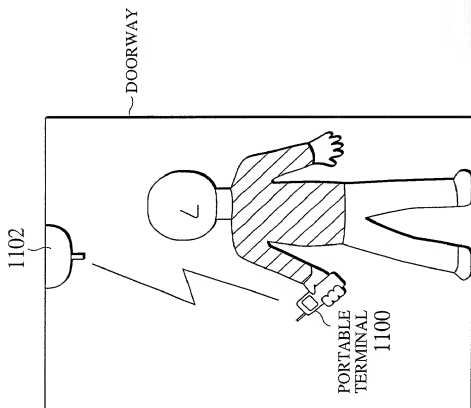
FIG. 20



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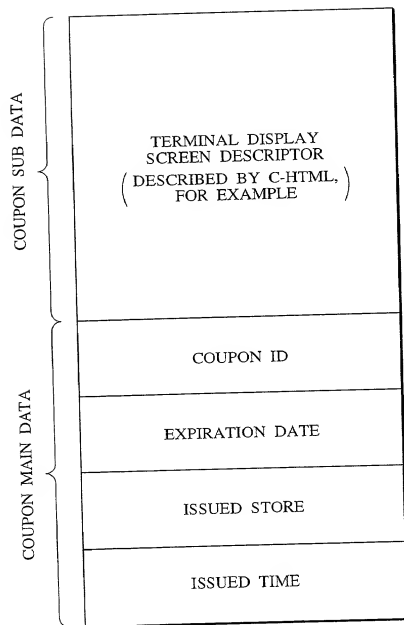
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FIG.21



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FIG.22



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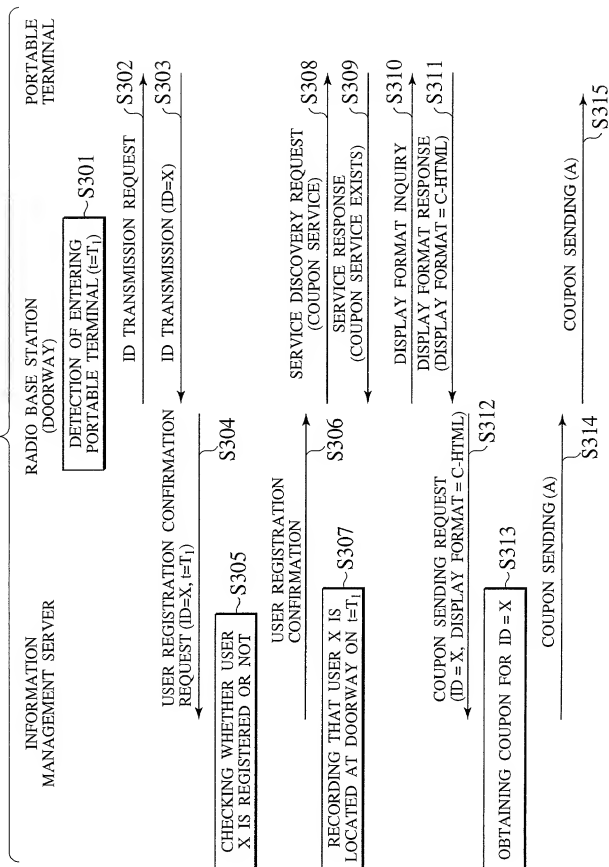
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FIG.23

TERMINAL ID	USER ATTRIBUTE INFORMATION (NAME, ADDRESS, AGE, SEX, ETC.)	TIME	PLACE	IDS OF SENT/COLLECTED COUPONS	PURCHASED ITEM
×	GEORGE BUSH 2001 42ND ST., MANHATTAN 30, MALE	T_1	DOORWAY	A(SENT)	
		T_2	DRINKS		
		$T_2 + \alpha$	DRINKS		
		$T_2 + 2\alpha$	DRINKS		
		T_3	REGISTER	B(COLLECTED)	× × CORP. OO LONG TEA

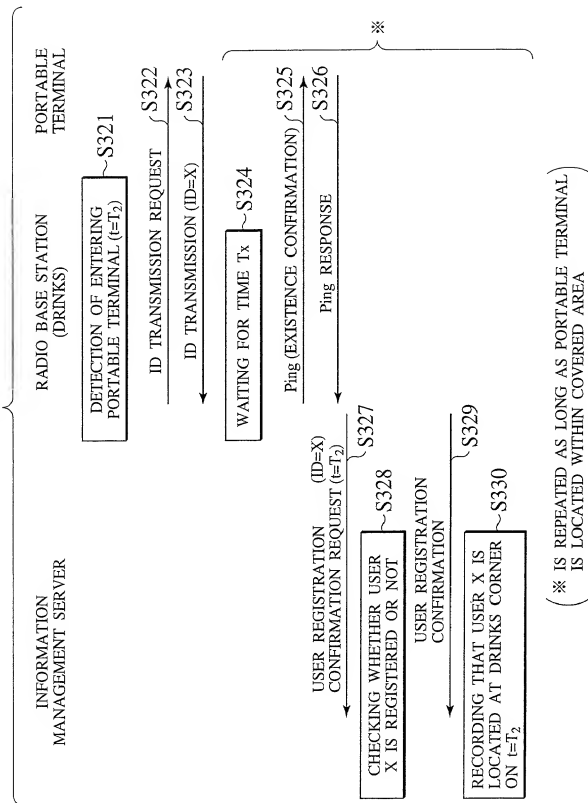
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FIG.24



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FIG.25



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FIG.26

